FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- RENEWAL

PERMITTEE

Gates Corporation, Galesburg Division Attn.: Chuck Buchna Post Office Box 1196 630 Route 150 East Galesburg, Illinois 61402-1196

Application No.: 72111011 I.D. No.: 095808AAB

Applicant's Designation: Date Received: October 27, 2005

Subject: Galesburg Hose Plant Date Issued: April 21, 2006

Date Issued: April 21, 2006 Expiration Date: April 21, 2011

Location: 630 Route 150 East, Galesburg

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of two boilers, one generator, #1-4 mixer/drop mill, rubber extrusion line, compound area, dense phase carbon black conveyance system, calcium carbonate system, 25,000 gallon aromatic oil tank, 25,000 gallon paraffinic oil tank, 25,000 gallon petroleum oil tank, fifteen storage tanks (one 250 gallon, one 500 gallon, one 1,000 gallon, one 1,200 gallon, one 1,500 gallon, one 2,500 gallon, seven 3,000 gallon, and two 8,200 gallon) and oil/water separator pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for volatile organic material (VOM), 10 tons/year for a single HAP, 25 tons/year of any combination of HAPs, 100 tons/year of SO_2 ,100 tons/year of CO, and 100 tons/year of NO_x). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA.

As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

3a. Emissions and operation of the two natural gas boilers combined shall not exceed the following limits:

Natural Gas Usage: 53 mmscf/month, 350 mmscf/year.

	Emission Factor	Emissions		
Pollutant	(Lb/mmscf)	(Tons/Mo)	(Tons/Yr)	
Nitrogen Oxide (NO_x)	100.0	5.30	17.50	
Carbon Monoxide (CO)	84.0	2.23	14.70	
Sulfur Dioxide (SO ₂)	0.6	0.02	0.11	
Particulate Matter (PM)	7.6	0.20	1.33	
Volatile Organic Material (VOM)	5.5	0.15	0.96	

These limits are based on the maximum boilers operations, standard emission factors AP-42, and maximum hours of operation. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

b. Emissions and operation of the two boilers combined using distillate fuel oil as backup shall not exceed the following limits:

Fuel Oil #2 Usage: 200,000 gallons/month, 2,000,000 gallons/year.

	Emission Factor	Emissions		
<u>Pollutant</u>	(Lb/1,000 Gal)	(Tons/Mo)	(Tons/Yr)	
Nitrogen Oxide (NO _x)	20.0	2.00	20.0	
Carbon Monoxide (CO)	5.0	0.50	5.0	
Sulfur Dioxide (SO_2)	42.6	4.26	42.6	
Particulate Matter (PM)	2.0	0.20	2.0	

The emissions from the boilers are based on maximum boiler operations and standard emission factors AP-42. Compliance with annual limit shall be determined on a monthly basis from a running total of 12 months of data.

4. Emissions and operation of the 403 hp generator shall not exceed the following limits:

Pollutant (Total All Units)	(Lbs/hp-Hr)	(Tons/Mo)	(Tons/Yr)
Nitrogen Oxide (NO _x)	0.031	0.63	6.25
Carbon Monoxide (CO)	0.0067	0.14	1.35
Sulfur Dioxide (SO_2)	0.0021	0.05	0.43
Particulate Matter (PM)	0.0022	0.05	0.45
Volatile Organic Material	0.0025	0.05	0.51

These emissions are based on 1,000 hours of operation of the generator using diesel fuel and standard emission factors of AP-42. Compliance with annual limits shall be determined from a running total of 12 months of data.

5a. Emissions and operation of the manufacturing equipment shall not exceed the following limits:

		Usa	age	Emission Factor		Emissions	
<u>Equipment</u>	<u>Material</u>	(Ton/Mo)	(Ton/Yr)	(Lb/Lb)	Emission	(Ton/Mo)	(Ton/Yr)
#1-4 Mixer/ Drop Mill	Rubber	7,500	50,000	0.000444 0.00014	VOM HAPs	3.33 1.05	22.2 7.0
Extrusion Line	Rubber	100	1,200	0.000106 0.0000753	VOM HAPs	0.01 0.01	0.13
Compound Area					PM		0.88
Dense Phase Pneumatic Co	Carbon onveying	Black 3,000	20,000	(lb/ton) 0.72	PM	1.08	7.2

These limits are based on maximum material throughputs, VOM contents and standard AP-42 emission factors from Table 11.12-2: Pneumatic Conveying of Cement, draft section 4.12, Manufacture of Rubber Products. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Usage and emissions of VOM from all cleanup operations shall not exceed 4.1 tons/year.
- c. Total plant-wide production of rubber shall not exceed 7,500 tons per month and 50,000 tons per year.
- 6. No person shall cause or allow the emission of carbon monoxide into the atmosphere from each individual boiler or generator to exceed 200 ppm in accordance with 35 Ill. Adm. Code 216.121.
- 7. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from each boiler or generator to exceed 0.3 lbs/mmBtu in any one hour period when burning distillate fuel oil exclusively in accord with 35 Ill. Adm. Code 214.161(b).
- 8a. At the above location, the Permittee shall not feed, store, or utilize:
 - i. Distillate fuel oil (Grades No.1 and 2) with a sulfur content greater than the larger of the two following values:
 - A. 0.28 weight percent, or

- B. The wt. percent given by the following formula: Maximum Wt. Percent Sulfur = (0.000015) x (Gross Heating Value of the Oil, Btu/Lb.).
- b. Organic liquid by-products or waste materials shall not be used in these fuel combustion emission sources without written approval from the Illinois EPA.
- 9. The Illinois EPA shall be allowed to sample all fuels stored at the above location.
- 10. The Permittee shall notify the Illinois EPA prior to any change in the type of fuel used at the source.
- 11. Natural gas and distillate fuel oil shall be the only fuel(s) fired in the above referenced boilers.
- 12. Particulate matter emissions from the bulk materials pneumatic transfer systems and Banbury mixers shall be controlled with baghouses.
- 13. This permit is issued based upon emissions of photochemically reactive organic materials, as defined under 35 Ill. Adm. Code 211.4690, from any emission source or operation using organic material, being less than 8 pounds per hour, pursuant to 35 Ill. Adm. Code 215.301.
- 14a. This permit is issued based upon particulate matter (PM) emissions from the emission sources covered by the above referenced permit application being in compliance with 35 Ill. Adm. Code Section 212.322, PM emissions from these sources shall not exceed the hourly emissions limitations based on each emission sources hourly process weight rate.
 - b. No person shall cause or allow visible emissions of smoke or other particulate matter with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those subject to 35 Ill. Adm. Code Section 212.122. To emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent, but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided such opaque emissions permitted during any 60 minute period shall occur from only one such emission locater within 1,000 foot radius from center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in 24 hour period pursuant to 35 Ill. Adm. Code 212.123.
 - c. No person shall cause or allow visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
- 15. In the event that the operation of this emission unit results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw

- material or installation of controls, in order to eliminate the odor nuisance.
- 16. This permit is issued based upon negligible emissions of volatile organic material from the 25,000 gallon aromatic oil tank, 25,000 gallon paraffinic oil tank, 25,000 gallon petroleum oil tank, fifteen storage tanks and oil/water separator. For this purpose emissions from each piece of equipment shall not exceed nominal rates of 0.1 pound per hour and 0.44 tons per year.
- 17. This permit is issued based upon negligible emissions of hazardous air pollutants from the storage tanks. For this purpose emissions from all the storage tanks shall not exceed nominal rates of 0.10 pounds per hour and 0.44 tons per year.
- 18. This permit is issued based upon negligible emissions of particulate matter from the calcium carbonate system. For this purpose emissions from each piece of equipment shall not exceed nominal rates of 0.1 pound per hour and 0.44 tons per year.
- 19. The Permittee shall maintain monthly records of the following items, and such other items as may be appropriate to allow the Illinois EPA to review compliance with the limits in this permit.
 - a. Monthly and annual (i.e., 12 month running total) usages for all materials (lb or gallon/month);
 - b. Natural gas and fuel oil usage (mmscf and gallon/month and year);
 - c. Total mixed rubber production (lb/month and lb/year);
 - d. Monthly plant emissions of criteria pollutants, individual HAPs, and total HAPs; and
 - e. Annual plant emissions of criteria pollutants, individual HAPs, and total HAPs (i.e., 12 month running total).
 - f. Maximum sulfur content (weight percent) of distillate fuel oil utilized annually.
- 20. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
- 21. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report

shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

22. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency Division of Air Pollution Control Compliance Section (#40) P.O. Box 19276 Springfield, Illinois 62794-9276

<u>and</u> one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency Division of Air Pollution Control 5415 North University Peoria, Illinois 61614

It should be noted that this permit has been revised so as to address removal of the 50,000 gallon fuel oil tank and include the fifteen storage tanks.

If you have any questions on this, please call George Kennedy at 217/782-2113.

Donald E. Sutton, P.E. Manager, Permit Section Division of Air Pollution Control

DES:GMK:lsm

cc: Region 2

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from this facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels (e.g., 100 tons/year NO_x , CO_x , SO_2 and VOM; and 10 tons/year single HAP and 25 tons/year combined HAPs) at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

	E M I S S I O N S (Tons/Year)							
Emissions Unit	<u>Fuel</u>	$\overline{\text{NO}}_{x}$	<u>CO</u>	<u>SO</u> 2	<u>PM</u>	<u>WOV</u>	Single (Combined <u>HAP</u>
2 Boilers	Natural Gas #2 Oil	17.50 20.00	14.70 5.00	0.11 42.60	1.33	0.96		
Generator	#2 Oil	6.25	1.35	0.43	0.45	0.51		
#1-4 Mixer/Drop Mill						22.20		7.00
Extrusion Line						0.13		0.09
Compound Area					0.88			
Dense Phase Pneumatic								
Conveying					7.20			
Cleanup Operations						4.10		
Calcium Carbonate					0.44			
System 25,000 Gal Aromatic					0.44			
Oil Tank						0.44		
25,000 Gal Paraffinic						0.44		
Oil Tank						0.44		
25,000 Gal Petroleum								
Oil Tank						0.44		
Oil/Water Separator						0.44		
15 Storage Tanks						6.66		0.44
Total		43.75	21.05	43.14	12.30	36.26	< 10	7.53

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